SPRING 2026

# DYNAMIC DRILLER

**Success stories from the GEOTECHNICAL, ENVIRONMENTAL, EXPLORATION, WATER WELL, GEOTHERMAL, CATHODIC PROTECTION, DEWATERING, CONSTRUCTION, and FOUNDATION drilling industries**

# Growing Sonic Fleet With the Right Partner

**When you own two sonic rigs and the work keeps coming, the question isn't whether to expand — it's choosing the right equipment to grow with. For GEOLOGIC EXPLORATION, the decision to add a third sonic rig came down to a relationship built during nearly two decades.**

## A History of Trust

The company's connection with Geoprobe® dates back to 2006. They purchased their first sonic rig — a Geoprobe® 8140 — in 2014. When they looked to add a second sonic to their fleet in 2017, they evaluated other manufacturers but came away unimpressed.

"We had a relationship with Geoprobe® and appreciated the service, reliability, and tooling," Kenny Sargent, driller, said. "Everything is superior to anything on the market. When something does go wrong, they're always willing to help and find the answer."

By 2025 the plan was to upgrade and possibly retire one of the older units. The outcome has been different.

"Works out, we may keep all three," Sargent said. "Like everyone else, we're struggling for personnel, but we have the work and think we'll get to the point we can run them all."

## Innovation That Listens

For Sargent, the Geoprobe® commitment to continuous improvement influences purchasing decisions.

"Geoprobe® is constantly working on something new, and we love seeing the new machines and functions," he said. "They are willing to adapt and listen to customer feedback. When they hear something doesn't work the way they intended, it's immediately addressed. Geoprobe® is constantly working to make things better and not settling for 'it works'."

## Engineering That Reflects the Field

The 8150LS V3 represents more than incremental improvement. For Sargent, the changes are immediately apparent.

"The redesigned breakout is phenomenal," he said. "They've taken a lot of what we talked about in previous conversations and applied it when reengineering the rig."

Thicker metal in the V3 breakout eliminates flex, and increased power makes separating tool strings effortless.

"The reengineered breakout makes my life a lot easier. I'm not struggling to break 8-, 10-, or 12-inch tooling," Sargent said. "I've not had a tool joint yet it hasn't broken apart with ease."

A large project in Jacksonville, North Carolina, put the 8150LS V3 through its paces. Running multiple tooling sizes across the job site, the rig handled everything without issue.

"I'm not having to worry about getting tool joints apart," Sargent said. "There's a night and day difference with the new breakout."

## Built for the Real World

Several design features stand out as essential for daily operations:

- *Side-Shifting Head:* ***"Critical when collecting samples, allowing precise positioning without moving the entire rig."***
- *90-Degree Head Tilt:* ***"Makes handling large tooling easier."***
- *Rod Handler:* ***"Improves both efficiency and safety. The helper isn't having to hold rods while I'm threading onto it. It's a great design that works great, and clients like to see us utilizing it."***
- *Controls and Displays:* ***"I like the simplicity of the controls, and the digital readout is nice."***

## Service That Understands the Field

Equipment downtime is inevitable. What matters is how quickly you're back up and running.

"Geoprobe® service plays a major role in achieving project goals," Sargent said. "When something goes wrong, we can call in and the service team is on top of it. They pull blueprints to pinpoint what to do."

The support goes beyond technical knowledge.

"They understand I'm not a Geoprobe® mechanic and may not know the terminology," he said. "Troy [Bourbon, sonic service specialist] does an excellent job. He's willing to help and listen. I don't think you can ask for more."

*Rod handler lifting casing and breakout separating tool strings simplifies fieldwork for drillers and helpers running Geoprobe® 8150LS sonic drill rig.*

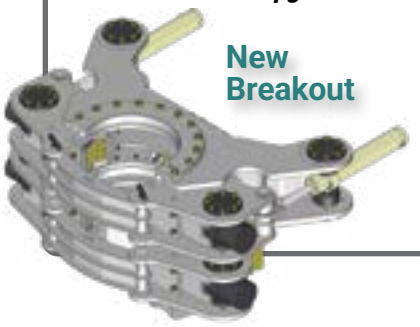
### *SONIC V3 BREAKOUT:* 'NIGHT AND DAY DIFFERENCE'

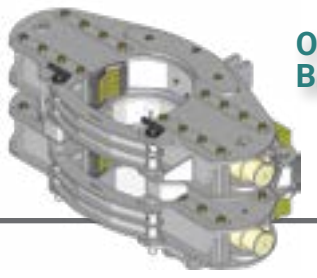
***SCAN TO WATCH***
**V3 14-INCH BREAKOUT**

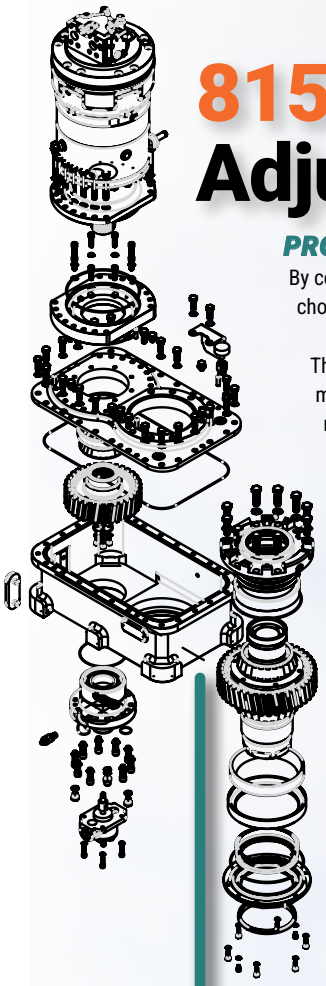
***Robust breakout improves handling 2- to 14-inch tooling***

- ***increased clamp force from 21,000 to 31,000 lbf***
- ***increased twist torque from 13,500 to 37,000 ft-lb***
- ***replace common wear components rather than entire breakout***

***Upgrades available for 8150LS V1 and V2 models.***





# 8150LS Sonic:
# Adjust as Fast as the Ground Changes

## PROVEN GV5 50K SONIC HEAD + INDUSTRY-LEADING DMR7 ROTARY HEAD

By combining the proven GV5 50K sonic head with the industry-leading DMR7 rotary head on a single platform you can choose the best drilling technique for virtually any formation without switching rigs.

The GV5 sonic head handles difficult overburden and produces straighter holes, while the DMR7 rotary head delivers more than **5,000 FT-LB OF TORQUE AND 1,000 RPM**. Its best-in-class **2.75-INCH THROUGH BORE** maximizes air and mud flow, completing rotary drilling in half the time of competing machines. Power from the **275 HORSEPOWER CAT® ENGINE** enables utilizing multiple pumps.

*Multiple heads and pumps means achieving depth faster for:*

- ***Shorter job timelines***
- ***Better footage rate***
- ***Lower labor costs***
- ***More projects completed***

## SWITCH TECHNIQUES IN MINUTES

The challenge of encountering different formations on site has always been adapting quickly enough to stay productive. Innovative **HEAD SIDE SHIFT** design lets operators **SWITCH BETWEEN SONIC AND ROTARY DRILLING IN MERE MINUTES** — no tools or fumbling for hours putting on a speed increaser. In short order, crews can use the threaded sub to adapt the DMR7 from air or mud rotary to high-speed coring components. No more "musical rigs" or downtime deciding which rig to bring.

*Choose the most efficient drilling method for the conditions, in real time, reaching target depth faster and with greater confidence:*

- ***Sonic for difficult overburden and straighter holes***
- ***Air rotary for fast, clean penetration***
- ***Mud rotary for stability in challenging formations***
- ***Wireline coring for precision sampling***

***BEST-IN-CLASS 2.75-INCH THROUGH BORE maximizes mud and air flow***


***THREADED ATTACHMENT 3.5-inch IF sub allows for switching to coring components***

***GV5 SONIC HEAD 3-year/1,000 head hour warranty***

**8150LS ROTARY SONIC** — **1 DRILL RIG** — **4 DRILLING TECHNIQUES**

## BETTER OUTCOMES FROM START TO FINISH

With one versatile rig, arrive on site confident you have the right solution — no second-guessing, no costly delays, and no backup equipment required. Operators can focus on drilling, not logistics. That simplicity translates directly to cost savings for both you and your clients.

*The GV5 sonic plus DMR7 rotary dual-head system gives you a single rig with the power to:*

- ***respond to changing conditions instantly***
- ***choose the most efficient method every time***
- ***complete projects faster***

***SCAN TO WATCH***
**GV5 SIDE SHIFT TO DMR7**

## CALL TO SCHEDULE A DEMO: 785-825-1842

### GV5 SONIC + DMR7 ROTARY HEAD APPLICATIONS

| ENVIRONMENTAL | AGGREGATE & MINING | CATHODIC PROTECTION & GEOTHERMAL | WATER WELL |
|---|---|---|---|
| Assess contaminants in overburden and bedrock with one rig. Set casing through difficult overburden with GV5 sonic head. Slide over to DMR7 rotary head, leveraging best-in-class through bore to maximize air/ mud flow for faster footage rates. Or set DMR7 up for wireline coring, collecting high-quality bedrock samples. | Collect samples with GV5 sonic, then slide over to DMR7 for high-speed coring — no need to tie up a dedicated rig for deep cores. Deploy GV5 sonic head to produce straighter holes through bedrock, critical for shafts and conduits hitting narrow targets for underground operations. With a single rig, | choose a drilling technique to drill to target depth the fastest. Set casing to bedrock quickly with GV5 sonic head. Then quickly slide the DMR7 rotary head over the cased hole, using its best-in-class through bore to maximize air or mud flow to finish wells faster. When you hit a mud | seam, switch from DMR7 air rotary to GV5 sonic, run casing, and switch back — all on one rig and without moving over and starting again. The best-in-class through bore on the DMR7 rotary head maximizes speed and minimizes downtime. |

## SONIC, ROCK CORING, WATER WELL SPECIALIST: Daniel Yoakum

NEW

Need help? Call Daniel. With decades of drilling experience, he's prepared to help customers solve problems, get more from their equipment, and understand advantages of Geoprobe® sonic rigs and rod handling.

**DANIEL YOAKUM**

TOOLING

## 3.5 GPS SONIC CASING: ONE-PIECE DESIGN ELIMINATES COMMON FAILURE POINT

Geoprobe® 3.5 GPS sonic casing delivers reliable performance through an uncommon manufacturing approach: upset forged ends. This one-piece design eliminates the need to weld end joints to the mid tube, removing what has traditionally been sonic tooling's most vulnerable point.

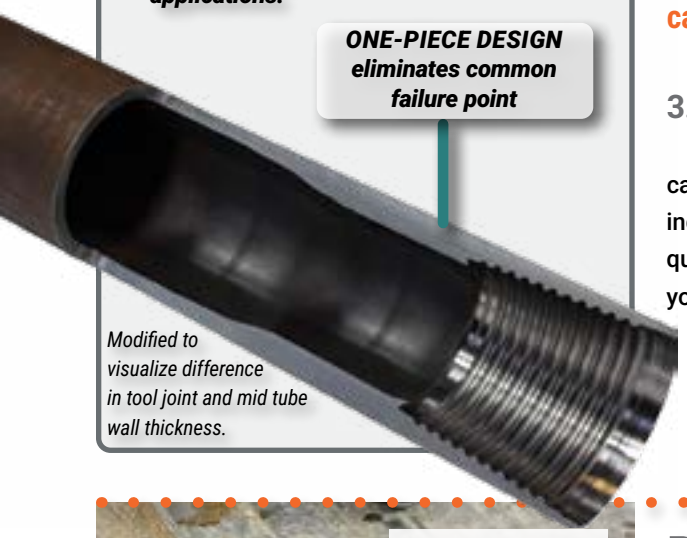
**"When dealing with sonic tooling, the common failure point is where the end joint is welded to the mid tube. We were able to eliminate that failure point on the 3.5 GPS sonic casing," Mike Carlin, tooling engineering manager, said. "Ultimately this makes for a stronger, more durable casing."**

The upset forging process increases the cross section at the tool joint, creating a thicker end that stands up to the demanding vibrations and stresses of sonic drilling. The result is a casing built to last longer in the field, reducing downtime and replacement costs.

***BENEFITS OF 3.5 GPS SONIC CASING:***

- ***One-piece Construction:*** ***No welded ends means no weld-related failure points.***
- ***Upset Forged Ends:*** ***Thicker cross section at the tool joint for increased strength with thinner mid tube.***
- ***Enhanced Durability:*** ***Engineered to withstand the rigors of sonic drilling applications.***

***ONE-PIECE DESIGN eliminates common failure point***



*Modified to visualize difference in tool joint and mid tube wall thickness.*

# In Stock Industry-standard Sonic Tooling, Geoprobe®-level quality

The sonic drilling industry has spoken: 4X6 sampling has become the standard, and Geoprobe® has responded with a full line of industry-compatible tooling built to the quality standards customers expect.

## Expanding to Meet Demand

While Geoprobe® continues stocking legacy sonic tooling, the new offerings give drillers access to on-the-shelf, quality-controlled components in the sizes the industry commonly relies on.

**"Customers now recognize 4X6 sonic sampling as the industry standard," Mike Carlin, tooling engineering manager, said. "We developed industry-compatible 6-inch casing and 4X6 sampling components to meet that need."**

For sonic drillers seeking Geoprobe® quality in industry-standard sizes, tooling is available on the shelf.

### LEGACY TOOLING

**Customers can still depend on Geoprobe® standard-duty and heavy-duty legacy sonic tooling to be stocked and ready for shipment. Our sonic casing line is expanding — not shrinking — to include the industry-compatible components.**

## 3.5 and 6.0 GPS Sonic Casing

Building on the established 3.5 GPS sonic casing, Geoprobe® offers 6.0 GPS casing with industry-compatible threads. Both sizes deliver quality-controlled manufacturing and availability you depend on to keep projects moving.

## 4X6 Sonic Sampling System

The 4X6 sonic sampling system provides industry-compatible components needed for the job , including 4.75 core barrels, bit options, drive heads, and core catchers.

- ***3.5 and 6.0 GPS sonic casing with industry compatible thread design***
- ***Everything you need for 4X6 sonic sampling, including:***
  ***Rods • Casing • Core Barrels • Bit Options • Drive Heads • Core Catchers***
- ***Stocked on shelves for reliable availability***

*Geoprobe® interlocking split spoons meet the demands of geotechnical drillers using conventional rigs.*

## Right Tool for Tough Sites

Four weeks. That's how far out subcontractors were scheduling drilling for a New York environmental consulting firm. The solution: launch **EAST COAST GEOSERVICES.**

"We took destiny into our own hands and started in 2006," Steven McGinn, partner, said.

What began as an in-house solution to support their environmental consulting work grew into something much larger.

"Now we're doing more geotechnical work than environmental," he said.

Operating on Long Island means dealing with one constant challenge: groundwater. For years, McGinn's crews struggled with traditional split spoons packed with saturated material and literally splitting apart at the seams.

"Regular split spoons would come back packed and split apart, making them difficult to actually get apart," McGinn said.

The solution came from an unexpected online discovery. While browsing equipment options on the Geoprobe® website, McGinn spotted the Geoprobe® 2-inch interlocking split spoon. The design promised to solve the exact problem his crews faced daily. He decided to take a chance.

**"They've worked out great since we got them," McGinn said. "The interlocking split spoons don't split apart when materials get packed in."**

McGinn describes the ordering process as "simple" with a phone call, quick review of his record, and order placed within minutes.

**"I'm glad Geoprobe® came up with the invention. It's made my life easier," McGinn said. "They save time opening up the spoon versus banging with wrenches. Just a slight rap with a hammer and the shoe and drive cap come off."**

# Deeper, Faster, Better CPT Operations

When **F&ME CONSULTANTS INC** needed to balance demanding government transportation and infrastructure assessments with commercial and private foundation projects, geologist Craig Piercy knew their cone penetration testing (CPT) capabilities needed an upgrade.

"We were looking for something that we could mobilize in emergency situations, move around job sites faster, and complete soundings faster than borings with a traditional drill rig while collecting continuous data," Piercy said.

Speed wasn't the only concern. Data quality had become a persistent challenge.

"We've used other CPT systems that don't give you confidence in seismic velocity readings," he said.

## Choosing a New Path

After evaluating their options, FME in South Carolina decided to partner with Geoprobe® for an entirely new CPT configuration: a 20CPT press on tractor and ASTRA15 cone with true interval seismic.

**"Geoprobe® has a longer track record with drilling equipment, so we had confidence in their 20CPT press rig," Piercy said. "We also thought the Geoprobe® DI CPT Suite software was more impressive."**

Piercy traveled to Geoprobe® headquarters in Kansas for hands-on training with CPT specialist Cory Harvey, running the press and software through its paces.

"Cory gave me great advice and helpful recommendations during the training," Piercy said. "It was good to check out the manufacturing side of Geoprobe® also. The machining of the tooling is done in-house."

## Field-Proven Results

After completing three deep holes with the new setup, Piercy knew they'd made the right decision: "We like it more than what we were doing before."

- ***20CPT Press on Tractor:* "Heavy-duty components are used to build the press, which is very easy to operate. We can take the tractor almost anywhere. The constant 2cm/sec head feed rate is convenient and gets our CPTs deeper than pushing from the back of a conventional drill rig."**
- ***ASTRA15 Cone:* "Works better than the 10cm² cone because it keeps the sleeve friction off the rods so you're able to push deeper. It's also more robust than a 10cm² cone. The Geoprobe® cone is very well-built and the components are well made."**
- ***True Interval Seismic CPT:* "The true interval eliminates trigger errors when doing seismic testing. The instant feedback of velocities in the field gives assurance that the velocities being collected are reasonable. Visually, it's great looking at the data and having confidence in the seismic shear waves being collected by two geophones for every hammer strike. The seismic data processing software gives you many options to chose from to help you determine the best velocity analytic model to use."**
- ***Geoprobe® DI CPT Suite:* "It's very user-friendly and integrates quality control checks that are not a feature on other CPT platforms I've used in the past. It's easier to run and teach other people how to use it than what we were using before. Geoprobe® DI CPT Suite software is just easier. The integrated zero values at the beginning and end of a push help verify data quality and ensure ASTM standards are being followed."**

## Proving Ground: A Critical Foundation Project

FME recently deployed the system on a critical infrastructure foundation project at the Columbia Canal. A sinkhole had formed next to a drilled shaft, prompting excavation and soil recompaction. They needed assurance that no additional voids remained.

"We did eight CPTs all around the foundation in question and found a small void that could have easily been missed using conventional drill rig sampling methods," he said.

## A Partnership Built on Support

FME values the relationship they've built with Geoprobe®.

**"Geoprobe® customer support is top notch, with most parts made in house. If we have an issue, it can be fixed," Piercy said. "We can send the cone off to Kansas or get the press serviced in Hickory, North Carolina."**

And when questions arise?

"We can send Geoprobe® CPT experts an email or a call and they're more than helpful — even if it's just something I forgot from training," he said.

## The Bottom Line

For FME, the investment has delivered on every front:

- ***Confidence from better data***
- ***Capability to push CPT deeper***
- ***Accuracy by eliminating trigger errors with single-strike dual shear wave recording***

"Overall, any equipment that increases the quality of data collected in the field is what I am looking for," Piercy said. "And I have been very happy with the added value that we have seen from our new ASTRA15 CPT cone, true interval seismic, and 20CPT press from Geoprobe®."

*ABOVE: Quality manufacturing of both 20CPT press and ASTRA cone combined with superior Geoprobe® DI CPT Suite software provide confidence to push deeper and to collect accurate readings.*

### TRUE INTERVAL SEISMIC CPT:

### ONE STRIKE, TWO READINGS, ZERO GUESSWORK

Two sensors sit exactly 0.5 meters apart. A single hammer strike registers at both depths simultaneously — eliminating variability when comparing data from separate strikes.

**SCAN TO WATCH**
TRUE SEISMIC CPT

***WHAT YOU GAIN***

- ***Faster Testing:* Fewer strikes means quicker site completion.**
- ***Cleaner Data:* Consistent input produces reliable shear wave velocity calculations.**
- ***Less Fatigue, Fewer Errors:* Reduced physical demand on operators cuts mistakes.**

# One Rig to Cover All the Bases

When your work spans across the variable geology of the Northeast, finding equipment that balances power, compactness, and versatility is no small task. **ODYSSEY ENVIRONMENTAL SERVICES** found their answer in the Geoprobe® 3135GT.

"We needed a more powerful drill rig that is still somewhat compact for our jobsites and has the versatility to complete our demanding environmental and geotechnical projects," Jason Miller, vice president, said. "The machine we were looking for needed more head torque for spinning augers, but still allow us to run DPT, drill air and mud rotary, and rock core."

After evaluating options, the 3135GT fit the bill.

## Productivity by Design

What surprised Odyssey most was how the rig's design translates directly into field efficiency.

**"The side shift head allows you to always drill directly over the borehole without having to adjust the foot forward and back to change rods," Miller said. "With three winch lines, you can pull multiple tool strings at any given time."**

The result is a streamlined workflow that simplifies tasks and speeds up production. The rig is user-friendly enough that one person could run it — similar to a 7822DT — but also simplifies fieldwork for the helper.

"It's very operator-friendly and also user-friendly for the helper to work with everything lining up directly over the borehole. By sliding the head, it makes it very easy to change drilling methodology," Miller said. "It simplifies tasks."

## Features that Make the Difference

Two capabilities stand out above the rest.

- ***Six-speed Head:*** ***"Allows for drilling with augers easily in high torque situations, then easily switch over to core, and spin casing higher rpms when needed. With this head it allows you to dial head speed in to gain maximum bit penetration for drilling." (see video below)***
- ***Three Winch Lines:*** ***"These are a game changer when hoisting and moving tools."***

Add in a track system that traverses varied terrain with ease, and the rig handles whatever the jobsite demands.

## Built for Variable Conditions

Working throughout the Northeast means encountering unpredictable formations from one project to the next. The 3135GT's additional head torque keeps Odyssey productive regardless of conditions.

**"The ability to change drilling methodology quickly helps us tackle difficult formations with ease," Miller said.**

The rig runs daily on diverse projects spanning direct push, augers, air rotary, and mud rotary drilling — covering the full range of Odyssey's environmental and geotechnical work.

## Simplifying Operations

Before the 3135GT, coordinating which rig went to which job added complexity. That's no longer a concern.

**"The 3135GT allows us to be more diverse and not worry which rig is out on a job," Miller said. "It covers all the bases."**

**THE BOTTOM-LINE:** "The 3135GT increased our capabilities, productivity, and profitability across the board," Miller said.

## Service When It Counts

For the Pennsylvania-based company, the Geoprobe® East Coast Service Center (ECSC) has become an essential partner.

"The ECSC is phenomenal. Having them so close is a blessing for us. We don't always have time to work on the rigs ourselves, so we can just run it to them," Miller said. "They understand how crucial it is to get equipment up and running in a timely fashion."

*Power of 3135GT with 10,000 ft-lb of torque and 1,000 rpm makes quick work of drilling 8.25-inch augers to set 6-inch steel casing and grout in place.*

**SCAN TO WATCH**
**ROCK CORING SIMPLIFIED**

# Drilling Down on Versatility

**PETRA TECH ENVIRONMENTAL** Trever Slack and his wife, Abby, began 14 years ago in Greenville, South Carolina. The company's original focus was on environmental consultation — primarily underground storage tanks (USTs) and government contracts. As the years went by, Petra Tech expanded to include a subdivision dedicated to environmental drilling.

"Now that department does our own internal drilling work, and we subcontract to other contractors who do the same type of work as we do," Slack said. "Ninety percent of our staff are licensed drillers, so they have all the capability to work behind the rigs, and we have three primary drillers."

## Under CDL Weight, Above Expectations

When Slack sought to add a third rig to his fleet, the Geoprobe® 3100GT stood out among its competition.

"The main thing that attracted me to the rig was that it was under CDL weight, but it had a higher auger torque that's significantly more than most environmental rigs," Slack said.

## Quick Setup, Quick Turnaround

Since then, Slack has been pleased by the 3100GT's simplicity and the ease it brings to the jobsite.

"The PTO instructions are really clear, and there's an automatic transmission, so any of our drillers can get in and set up the rig over the borehole. On these sites, we may need to do 15–20 wells a day, so being able to break it down quickly has been beneficial," Slack said. "Another one of the things we've liked is the oscillating head and the centerline head side shift that allows you to go between direct push and augering without moving the rig."

## From Monitoring Wells to Air Drilling

Coupled with the rig's versatility, Petra Tech's 3100GT has proven its value across a variety of projects.

"We currently have the 3100GT doing monitoring wells, well installation for UST sites that are 50 ft or less, direct push, and soil and groundwater sampling," Slack said. "We also have an air drilling project where we're using an auxiliary air compressor with it."

**SCAN TO WATCH**
**31 SERIES GEOTECH RIGS**

## Support Close to Home

If anything goes wrong on a jobsite, Slack is at ease knowing the North Carolina Service Center is nearby.

"We like having the North Carolina Service Center nearby and being able to call them on the phone any time we have an issue in the field or get a code. We get a technician on the phone who walks us through our problem immediately," he said.

*ABOVE: 3100GT versatility plus automatic transmission chassis under class A/B CDL means any driller can move rig over the bore hole, whether for monitoring well installations, direct push, or air drilling.*

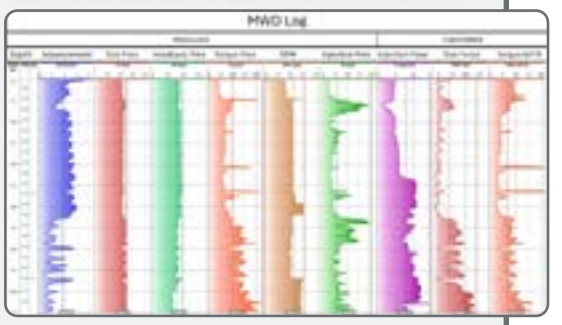
## MEASUREMENT WHILE DRILLING (MWD):
## MWD READY RIGS, EXPERTS

Geoprobe® geotech rigs — 3135GT, 3126GT, and 3100GT — now come prepped for MWD and backed by Geoprobe® expert technical support.

***WHAT'S INCLUDED:***
- ***Built-in wiring***
- ***Mounting points***
- ***Programming for easy future installation***

***WHAT YOU GAIN:***
- ***Capturing real-time drilling and operation data***
- ***Detecting lithology changes and voids in soil or rock***
- ***ISO 22476-15 compliance***
- ***CAN Bus J1939 output to your logging system***

"Traditional geotechnical exploration would be to conduct SPT, only capturing data at 5-foot intervals. MWD fills in the picture between samples," said Alex Silvey, Nebraska DOT. "By paying attention to rig feedback, we can detect finer changes in material properties and identify accurate changes in lithology versus relying on an experienced driller to notice it by feel or missing important property changes in between intervals."




*Sample MWD Log to 110ft in Salina, Kansas*

"Geoprobe® engineers on the manufacturer side are taking the lead in the industry implementing a system well integrated with the machine," Silvey said. "It's a drill rig manufacturer trying to eliminate headaches of improving technology and compatibility upfront, which makes progressing with MWD easier if you're interested."

***BOTTOM LINE:***
Harness emerging data technology with sensors and measurements designed by Team Geoprobe® — plus expert tech support and readily available parts when you need them.

**SCAN TO WATCH**
**MWD**

# Drilling Deeper, Growing Stronger

Michigan-based **ROSENDALL WELL DRILLING LLC** began in 1985 focused solely on water well drilling. Now four decades later, it's serving geotechnical, environmental, and water well clients across the region.

"Dad started the business in 1985 drilling water wells," Jeff Rosendall, owner, said. "Demand has increased as new construction has taken off in the area, so we've diversified during the past 10 years."

Those changes started with a calculated risk: a used 7822DT purchased to break into environmental drilling. Three years later, demand had grown enough to justify a new 7822DT. Today, their fleet includes a Geoprobe® DM250, the 7822DT, and the company's newest addition: a 3126GT.

## Hitting a Wall at 30 Feet

The decision to add the 3126GT came down to geology.

"As requests from clients for geotechnical drilling increased, we wanted more power to be able to drill deeper," Rosendall said. "We have a lot of clay in our region, and the 7822DT struggled to drill below 30 feet."

When they reviewed the specifications on the 3126GT, the choice became clear. The rig now handles the majority of the company's geotechnical work, along with a fair amount of environmental drilling for 2-inch monitoring well installations.

## More Power Than Expected

Even understanding the rig specifications on paper, the performance of the 3126GT delivered surprises.

**"We knew it would be stronger, but the torque is impressive," Rosendall said. "The winches are more powerful. Everything is just bigger and more powerful than our 7822DT."**

Top feature: the centerline head side shift.

"The way the head slides over the hole makes operations efficient," he said.

The rig's weight has proven to be an asset, helping the team drill deeper and faster without the machine lifting off the ground. That translates directly to productivity gains on every job.

## From 30 Feet to 120

The 3126GT has opened doors. On a recent geotechnical project for a water tower, the crew reached 120 feet while collecting split spoon samples.

**"We're also able to switch to mud rotary partway through when encountering heaving," Rosendall said. "All made doable thanks to Geoprobe®."**

Today, geotechnical work accounts for roughly 80 percent of the company's projects unrelated to water well drilling or service. The team typically uses the drop hammer for split spoon samples on commercial developments and residential real estate evaluations. The consistent theme across these jobs: better overall performance.

## The Business Case

Adding the 3126GT hasn't just improved field operations — it's driven business growth. When you can say "yes" to deeper holes, tighter timelines, and more challenging soil conditions, clients take notice.

"It's produced more work, generally by being able to better serve existing customers," Rosendall said.

## Why Geoprobe®?

For Rosendall, the equipment is only part of the equation. What keeps him coming back to Geoprobe® is the support behind it.

**"No matter whether it's a water well, environmental, or geotechnical rig, the technical help is second to none," he said. "Even when we had a used rig not directly purchased through Geoprobe®, they stand behind all their products."**

That support extends across the entire organization.

"From sales to technical support for tooling and parts, everyone is very knowledgeable," Rosendall said. "The quality of Geoprobe® representatives is head and shoulders above others I've dealt with — that's what keeps me coming back."

*3126GT powers through challenging geologies while offering versatility to efficiently switch drilling techniques midway through projects.*

DM250 compact platform slips in between residential structures with top head speed and 22-foot stroke to amplify production.

# Subcontracting Stress to Half-Day Wells

**When subcontracting became unbearable, JP ANDERSON WELL & PUMP made a change that cut drilling time by more than half.**

## A Foundation in Water Quality

Jody Anderson started JP Anderson Well & Pump in 2002 after working for his father's well and water treatment company. Operating in coastal South Carolina, the company focused on shallow wells and water treatment systems.

"At the time most people wouldn't spend money on a deep well and a reverse osmosis system," Anderson said. "We had two Buck Rogers 760s. We'd keep one rig rebuilt and drill two or three 50-foot wells a week."

As the market shifted toward deeper wells and reverse osmosis (RO), Anderson adapted. He developed an RO system with a cistern designed to withstand outdoor conditions under a fiberglass well house — one that wouldn't trigger homeowners' association restrictions on outbuildings.

"This allowed us to drill the well and install the reverse osmosis simultaneously versus bidding as two separate projects," he said.

## The Breaking Point

As the company focused on water quality, in-house drilling took a back seat.

"For every 10 wells we'd sell, we'd only drill two and subcontract the other eight," Anderson said. "Subcontracting became really stressful around 2024-25."

With 50 wells lined up, Anderson decided to upgrade the fleet. He briefly considered another manufacturer's rig but got mixed word-of-mouth on quality and service — confirmed by a friend two miles from his shop who experienced the service issues firsthand.

## Why the DM250

Anderson had run a Drillmaster 400, a DM series predecessor, for his father and was familiar with the older DM series. But the rigs built under Geoprobe® ownership were different.

**"There was a big change when Geoprobe® bought them," he said. "The DM series rigs built by Geoprobe® are more streamlined and lighter, with top head improvements. You can see the level of engineering detail compared to the old design."**

The service sealed the decision.

"We were really impressed with the service and follow-up," Anderson said.

## Surprising Comfort

What surprised Anderson most had nothing to do with drilling performance.

**"The driveability has surprised me the most," Anderson said. "It's a smooth ride and perfectly balanced. Every drill rig I've had would beat me to death and was a pain to drive. The DM250 drives just like an F250. It's so comfortable I confuse it for my Denali."**

The automatic transmission, initially a concern, became a benefit.

"Any employee can drive, and I know the clutch isn't getting torn up," he said.

## Faster, Cleaner Drilling

The DM250 solved a persistent problem. In the past, casing installation was a struggle using diaphragm and centrifugal pumps.

**"We went to a piston on our DM250, and our boreholes are cleaner and we can set casing faster," Anderson said. "A 250-foot well used to take one to one-and-a-quarter days. Now we can do it in half a day, eat a nice lunch, and go finish my office work."**

One project demonstrated the rig's capability. The crew drilled a 12-inch hole to 145 feet, dropped in 8-inch casing, then continued to rock at 260 feet with a 7.5-inch rock bit and 6⅞ stabilizer. Using fast feed, they broke through 5 feet of harder rock to reach final depth at 305 feet — with no issues pulling rods and bit back out to develop the well.

"We finished in two days what used to take over a week," Anderson says.

## Confidence and Support

For Anderson, one advantage stands above the rest.

**"Confidence," he said. "If I have a problem, I can call Geoprobe® and have them on the horn within five minutes. That's a feature that's indispensable."**

A tour of the manufacturing facility reinforced his decision. Anderson brought along a friend with experience working in manufacturing plants for several companies.

"He was impressed and told me, 'They've got their act together,'" Anderson said. "The way they innovated to continue building rigs while waiting for a truck chassis during supply chain shortages was very impressive."

WATER WELL


*DM450 makes commercial projects like deeper agriculture wells easier while still providing versatility for residential wells.*

# Residential Roots to High-Capacity Drilling

Ten years ago, **WATER TECHNOLOGIES OF SW FLORIDA** was founded by Robert Howard, a water-well driller with 40 years of experience, and his son-in-law Jacob Pruette. Their focus started on smaller residential wells that could easily be accomplished with their three rigs, including two DM250s. But as their scope started to expand, their needs for a rig also changed.

**"The DM450 is a larger rig and we're focusing more on large commercial and agriculture. That's the reason we purchased it: to accommodate for the deeper agriculture wells," Pruette said.**

**SCAN TO WATCH**
**WATER WELL FAMILY OF RIGS**

## Features That Deliver in the Field

The DM450 doesn't just handle bigger wells — it makes them easier:

- ***Carousel:* "The larger capacity carousel and the helper controls where you can reload the carousel while you're drilling helps us a lot."**
- ***Chassis:* "We enjoy the Western Star chassis. It's a lot beefier and a lot stronger, so that's been a huge improvement over the previous years."**
- ***Air Compressor:* "It has a two-stage air compressor so we can use it on the lower stage for residential wells and the second stage for larger, deep commercial wells."**
- ***Top Head:* "The two speed top head makes it really nice whenever you're in harder rock, and slow it in rockier, gummier clays."**

Although it was purchased for larger wells, the DM450 has proven to be invaluable and flexible for multiple job sites.

**"The DM450 drills every day. If it's not drilling a commercial or agricultural well, it's drilling residential wells," Pruette said. "We love the rig, we're extremely happy with it. We're already thinking about purchasing our next one."**

# Family Drilling Business Invests in Its Future

Todd Ferguson's drilling career started with a summer job and a casual remark.

"While I worked for a well drilling company one summer, I mentioned if they were ever selling some equipment I'd be interested," said Ferguson, now owner of **SPLASH WELL DRILLING**. "A year after I graduated, I got the call. My Dad and I got the financing together to buy the cable tool rig in 1986."

The Ontario-based company shifted from a father-son partnership into a three-generation family business. Today, son Johnathon handles drilling while daughter Chelsea manages the office.

"I'm glad family came on board. It's a proud feeling having your children working in the company," Todd said. "Every job is a new job — your brain has to work. So being in the water well drilling business never gets stale. That's part of the reason I keep doing it."

## Time for a Change

After years of service and multiple rebuilds, their 2001 T3 rig was showing its age. The search for a replacement proved challenging. At the 2022 National Ground Water Association show, one manufacturer promised follow-up.

"They said they'd have their Canadian sales rep reach out to me," he said. "I still haven't heard from him."

A friend's purchase of a different brand offered another option — until they took a closer look.

"It was a lot of wires. We're not big on wires, especially all wadded up under the control panel," Todd said. "We're not electricians. We're mechanics who prefer hydraulic over hydraulic and don't want to be chasing wires."

## Finding the Right Fit

The path to Geoprobe® began when Todd saw a DM450 operating in Florida. Conversations with Donnie Wood followed, along with an invitation to the 2024 Open House. Fellow Canadian drillers, MacKinnon, shared positive experiences buying their two DM650s.

**"When you're spending that kind of money to buy a big rig, you want to feel good about the people making and supporting it on the back end," Todd said. "With a DM rig you get good service on the front and the back end of the sale."**

The Open House visit sealed the deal.

"I hadn't seen a DM rig run until we went to Open House," Johnathon said. "Being able to see how they're being put together, how they run, and how the rod handling works was the final step in deciding to sign the purchase contract."

The manufacturing tour left a lasting impression.

"Seeing everything made in house was impressive," Todd said.

## RACING THE TARIFF CLOCK

With completion scheduled for April 2025, potential tariffs threatened the purchase.

"The potential tariffs announced would have made it almost not feasible to complete the purchase," Todd explains. "I asked Donnie if we could get the rig before the end of March."

Geoprobe® responded by accelerating production.

"We were able to pick up the rig at the border March 28, a few days ahead of when the tariffs were supposed to go into effect," Todd said. "We greatly appreciate the extra effort Team Geoprobe® put in to make that happen."

Chelsea handled the import process.

"All of them were wonderful to deal with and very fast at responding to anything we may have needed for importing the rig," Chelsea said. "We would highly recommend Geoprobe® to anyone in the market for a new drill rig."

## A Rig That Delivers

Since delivery, the DM650 has exceeded expectations.

"It's well thought out and laid out well. It's easy to work on because hoses aren't balled together. It has more power, lots of torque to go through glacial till easier," Todd said.

As the primary driller, Johnathon has put the DM650 through its paces. It has exceeded expectations across every application:

- ***Air Rotary:* "It drills a lot faster with more air volume. It's faster to trip in and out of the hole."**
- ***Mud Rotary:* "On mud jobs, the pump is easier to hear and see what's going on compared to our old rig and easier to connect to our Mud Slayer."**
- ***Power & Strength:* "The torque is higher for using our 12- or 14-inch tricone. The rigid derrick eliminates deflection. It just handles the big jobs well and makes our T3 feel like a toy."**
- ***Rod Handling:* "The rod handling and ability to backload the carousel means the driller can stay on the platform drilling while the helper loads the carousel."**
- ***Head Side Shift:* "The head shifting both ways makes it easy to open up the table and not have any restriction at the top of the rig." *(see video below)***

## Service That Keeps Them Running

With drilling season running April through December, reliable support is crucial.

**"When you call Geoprobe®, they understand the water well industry and know what they're talking about," Todd said.**

The Geoprobe® response to warranty work did surprise them.

"We had a hydraulic cylinder leaking and thought they would probably just send us a kit to take in to a shop for a rebuild," Todd said. "They sent us the whole cylinder, so it was plug and play."

Even in Canada, help is only a phone call away.

"When you make a service call, they pick up the phone and try to solve the problem as quickly as possible," Johnathon said. "We've only had a couple of issues, so you know the equipment is solid."

## Looking Ahead

Todd is confident in their investment.

"If we're ever looking for another rig, a Geoprobe® DM series rig would be first on the list," he said. "Maybe a DM450 next time."

As for that friend's wire-tangled competitor rig?

"He's admitted he doesn't think it's a 20-year rig. Twenty years down the road I'm confident our DM650 will still be drilling," Todd said. "We might run the truck out, but the drill will still be running."

**SCAN TO WATCH**

**DM650 HEAD SIDE SHIFT**

*DM650 provides power and speed to handle large bits while ability to backload carousel and use head side shift creates efficient production.*

NEW

# 21FH FOUNDATION DRILL RIG: BUILT TO LAST

Tough work demands tough rigs. The Geoprobe® 21FH foundation drill stands up to daily foundation drilling. Engineered, manufactured, and supported in North America, the 21FH is built on field-proven Geoprobe® engineering trusted across geotechnical and geothermal drilling. Durability, serviceability, utilization — it's all built in.

## Engineered for Production Drilling

The 21FH handles:

- ***Micropiles***
- ***Tieback anchors***
- ***Soil nails***

Key features:

- ***Fully articulating drill mast*** → ***fit into tight sites***
- ***Oscillating tracks*** → ***stability on soft or sloped terrain***
- ***Single rotary/dual rotary/sonic head*** → ***choose best option for fast, efficient installations***

Why operators love it:

- ***High-performance breakout system*** → ***40-inch top clamp travel***
- ***Seven-joint kinematics*** → ***versatile positioning***

## Maximize Utilization

Powered by a 275 hp CAT® engine, the 21FH keeps your crew drilling longer with less downtime.

Maintenance made simple:

- ***Plumbing routed for quick access***
- ***Multiple bulkheads simplify hose troubleshooting***
- ***Breakout components replaceable individually***
- ***Direct access to expert technicians (live answers)***
- ***Nationwide service network***

**Result:** More daily production, less downtime, and peace of mind on every job.

*Members of the 21FH machine design engineering team.*

*Factory service center team.*

# FIELDWORK SIMPLIFIED™

***FASTER:***

- ***Breakout top clamp raises 40 inches.***
- ***No outriggers = faster setup, crews working sooner.***

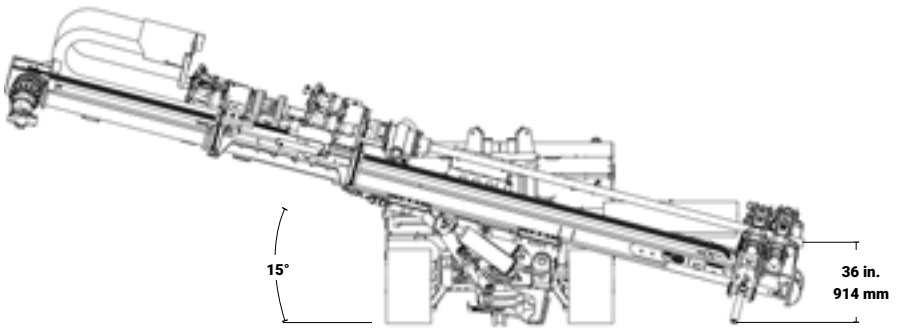
***EASIER:***

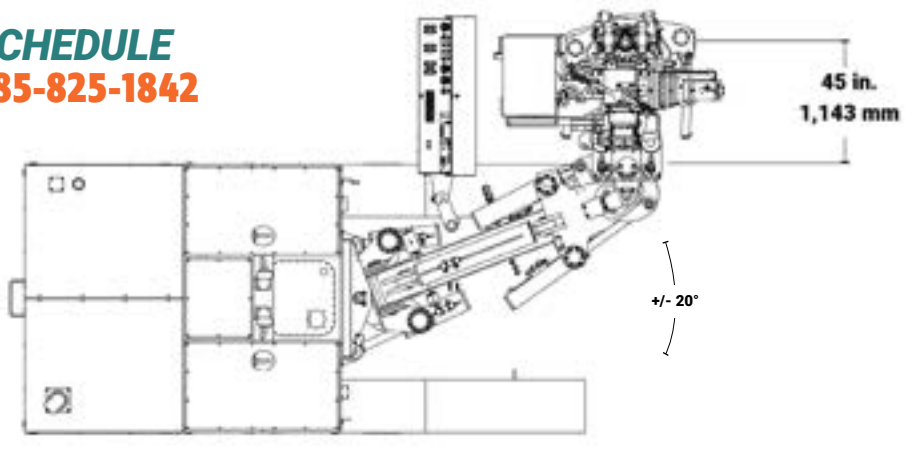
- ***Service-friendly layout with accessible plumbing.***
- ***Multiple bulkheads for hose checks.***
- ***Individually replaceable breakout components.***
- ***Mostly mechanical controls = less complexity.***

***SAFER:***

- ***Seven-joint kinematics for precise positioning.***
- ***Oscillating tracks = stable on soft or uneven ground.***
- ***Optional diverter keeps drilling fluids and rotary air away from people and equipment.***

**SCAN TO WATCH**
**21FH FOR MICROPILES, TIEBACKS, AND SOIL NAILS**




***CALL TO SCHEDULE A DEMO: 785-825-1842***

NEW

## FOUNDATION CONNECTION: Toby Omli

Curious about the 21FH foundation drill rig? Toby Omli draws on his understanding of construction projects to listen to customer feedback and help solve fleet challenges.

**TOBY OMLI**


*Ability to use 7822DT blade to transport tooling includes bringing 420M on site, streamlining mobilization.*

# From Water to Soil

George Kent started **ACE DEWATERING** 35 years ago with a singular focus: lowering the water table for construction projects. Today, the company has transformed into a versatile operation where environmental and geotechnical drilling make up more than half their business.

## A Journey Through the Industry

After working for both his father and his uncle, a well driller, Eric Kent spent five years working for an environmental drilling company, earning his environmental drilling license. When he returned to Ace Dewatering 18 years ago, he brought new vision and expertise.

"When I returned, I slowly began incorporating environmental drilling and eventually geotechnical drilling," Eric said.

The expansion wasn't just about adding services. It was about recognizing opportunity in the field.

## The Right Equipment for Expansion

Ace Dewatering's transformation required more than just new skills, it demanded versatile equipment. While the company had relied on a 6620DT for installing wellpoints in tight formations where standard water pressure methods failed, Eric's return marked a shift in their equipment strategy with the purchase of a 7822DT.

**"We can utilize it in so many ways — SPT, environmental, air rotary. We recently added the Moyno to do mud rotary," Eric said. "When we are on a dewatering project installing wellpoints, the convenience of utilizing the 4-inch direct push rods or switching to augers really speeds up productivity."**

## Meeting Market Demands

Expansion into geotech services came naturally, driven by client requests.

**"We'd be doing dewatering for footings on new homes, and they would ask if we could do geotechnical borings as well," Eric said. "Having the 7822DT has benefitted us to be able to pursue more work in residential geotech."**

The compact size of the 7822DT solved a persistent challenge. While their larger conventional drill rig often couldn't access consultant-specified boring locations, the 7822DT's compact platform eliminates access concerns.

"It doesn't matter what size the job site, we don't have to worry about being able to get to it," Eric said.

## Streamlined Operations

Efficiency extends beyond the rig itself. The blade on the back of the 7822DT has become a mobile equipment platform.

"We have a couple of tool racks outfitted for different applications. We even built a bracket to carry our 420M on the blade, which streamlines mobilization," Eric said. "We have all the equipment to do the indoor and outdoor portion of a job."

This versatility proved invaluable during a contract with a power company who was replacing high-voltage lines in remote locations.

**"We could track out there and perform environmental boring, set a temporary wellpoint, and do a 50-foot geotechnical boring with one rig," Eric said. "Everything we needed was right there, just moving from one hole to the next. We can switch from geotechnical to environmental without any issues."**

## A Balanced Business Model

While dewatering remains the most profitable service line, the diversification has provided crucial stability.

"When it's slow with dewatering, we're keeping the bills paid," Eric said.

The 7822DT has been central to this success.

"It has exceeded our production needs," Eric said, reflecting on how the versatility of the 7822DT has enabled their shift from a single-service contractor to a multi-disciplinary drilling company.

*Compact 7822DT sized right for sidewalks while telescoping mast adds layer of safety when dealing with overhead power lines.*

# Rock Solid Returns

Subcontracting rock drilling at $7,000 per day was killing chances to win bids.

"Around here it's often only 10-15 feet before you hit bedrock," Nathan Ferree, operator, said. "That's $7,000 to set isolation casing one day, and then $7,000 the next day to drill 20 feet into bedrock."

The math didn't work. So **CHASE ENVIRONMENTAL** changed the equation.

## A Low-Cost Solution

Rather than purchasing specialized equipment, the team outfitted their 2012 7822DT with a new foot, breakout, and wet water swivel for rock drilling and coring.

"There wasn't a lot of up-front cost to be able to drill rock wells and core, and the machine is still 100 percent functional for hollow stem auger and probing," Ferree said. "With the ability to do rock drilling ourselves, it actually makes the job more profitable."

Now when companies like Wawa have sites requiring bedrock wells, Chase is more competitive and more profitable.

**"We ran the numbers. If we do 3 or 4 of these projects, it pays for itself," Ferree said. "Now we drill down 7-10 feet then switch to rock drilling down to 50 feet. We've only been to 55 feet, but I guarantee we could go deeper. We just haven't bought the rods."**

## Expanding Capabilities

The success prompted Chase to invest further. With their 2012 unit accumulating hours, they added a 7822DT V4 featuring wider tracks moved forward for improved stability and load-sense hydraulics that apply appropriate power for each operation.

**"The 7822DT V4 has more capabilities with the head feed controls, so it only advances at a certain rate when rock hammering versus feathering," Ferree said.**

## The Right Fit

For Chase, setting up their 7822DTs to rock drill has been a "game changer".

"It's just right for when a consultant is wanting to drill 50 or 60 feet into rock for one or two rock wells to see where groundwater is located," Ferree said.

The compact size of the 7822DT delivers additional advantages.

**"We can pull our 7822DT on a trailer without a CDL and rock drill. We can use the blade to pick up a pallet and move materials around on site," Ferree said. "The smaller footprint is great for getting under canopies or power-lines, going through mud, or tucking in between houses."**

That versatility recently helped another Chase office when their conventional drill rig couldn't handle a challenging site.

"We brought our 7822DT to help out another office whose conventional rig couldn't go over the hill to drill a rock well — it was too wet for the bigger rig," Ferree said.

## Two Decades of Trust

With 20 years at Chase, Ferree has seen the company's rigs progress alongside industry demands.

"We've had everything Geoprobe® from a 66 to a 7822DT. It's been a constant progression of better rigs and sampling tooling," he said. "We run our machines pretty hard, and they don't break."

For Ferree, the verdict is simple.

**"Drillers know when they get a quality product. We can hear it, feel it, see it," Ferree said. "I'd simply tell anyone, 'Buy a Geoprobe®'."**

*ABOVE: Outfitting 7822DT with components to complete rock drilling and coring proves cost effective compared to subcontracting work.*

ENVIRONMENTAL

# Big Capability, Small Footprint

When Denny Hight started the **PHOENIX GROUP** in 1996, the initial goal was to provide consultation work for the Oklahoma City area. But in its nearly 30 years of operation, the company has grown to bring more aspects of environmental work under its roof.

"We do environmental consultation, but also our own field work so we don't have to sub out as much as other folks do," said Garrett Hight, current vice president and son of the founder. "Whenever gas stations and truck stops have underground releases, we go in to do environmental investigations and remediation to clean it up."

## A Rig that Changed the Workflow

In 2018, the Phoenix Group brought in a new piece of equipment that would change the way they conducted their work: a Geoprobe® 6712DT.

"We were looking to do direct push, discreet sampling, and continuous sampling for our environmental work here," Garrett said. "We had a guy working for us at the time that had run a Geoprobe® rig, and we looked into getting one. The 6712DT was one of the ones that became available."

## Getting under the Canopy

Working with gas stations means limited clearance, and the 6712DT proved instrumental in getting into tight spaces.

**"For a lot of our sampling, we sample next to the product line trenches where the gasoline goes through to get to the gas dispensers. We have to drill and sample underneath that," Garrett said. "Any time we have to drill under a gas station canopy, a bigger rig can't do that. Our winch mast can, especially for direct push stuff. The tooling is so much easier to handle, and we can do it by hand."**

## Adding Versatility with a Rotary Head

Addition of a 2-speed rotary head provides even more capability on site.

**"We use it to plug wells with solid flight augers or install monitoring wells with hollow stem augers under gas station canopies with low clearance or in areas around buildings where bigger rigs cannot access," Garrett said.**

*APEX 6712DT compact platform suited to squeeze under gas station canopies with capability to run solid flight augers wherever the job site requires.*

# Low Clearance, Compact Power for Big-City Drilling


*Low ceilings and tight quarters are no match for the size and power of the 6011DT outfitted with a GH60 percussion hammer and rotary head.*

Focused on environmental and geotechnical drilling across the five boroughs, Connecticut, and New Jersey, **COASTAL ENVIRONMENTAL SOLUTIONS** started with a Geoprobe® 6610DT.

"When my partner and I started, we met with Vic in New Jersey and he spent eight hours showing us how to operate our 6610DT," said Marc Morgenstern, president of the New York company.

## Finding the Right Replacement

A decade later, the company was still relying on that original rig, but age was beginning to take its toll. Search for a replacement began.

**"We liked the idea of the telescoping winch mast on the 6011DT. Its ability to work in limited-access sites fit the bill," Morgenstern said. "We briefly considered another manufacturer's rig, but felt it was just a poor copy of what Geoprobe® had to offer."**

For Morgenstern, the highlights of the 6011DT include:

- *Versatility:* ***"We've done every method of drilling with our 6011DT — air rotary, rock coring, mud rotary, spinning augers. It's good at fitting whatever we need."***
- *Accessibility:* ***"The telescoping winch mast is perfect for limited-access sites, like projects below stairs."***

## Built for Limited Height and Access

That accessibility has opened the door to unusual projects — including bringing the rig into the basement of an active Manhattan building.

"We routed the exhaust out to complete air rotary, installing anchors for the foundation," Morgenstern said.

The 6011DT helped the company expand its services.

**"Clients reach out when they have limited-height work because we have the ability to use 3-foot rods to work under 8-foot ceilings," Morgenstern said. "The 6011DT is definitely stronger than our 6610DT with the same percussion hammer as the 7822DT. The ability to work within height restrictions is way better than any other rig we have."**

## Ten Years of Building a Geoprobe® Fleet

During the past decade, the company has built its business around a fleet of Geoprobe® rigs — from a 420M up to multiple 7822DT units.

"Geoprobe® rigs are quick and efficient, and the service is better than any other we've encountered," Morgenstern said. "We don't have many troubles. Our 1998 54DT is still running solid."

Along the way, the team has also learned a lot about maintaining their own equipment.

"We literally started out not knowing anything about hydraulics or diesel," Morgenstern said. "Bryan Lorenson [service specialist] has gotten us to where we can pretty much service these rigs ourselves. We call him 'Dad'."

## FROM ENVIRONMENTAL TO GEOTECHNICAL

**Coastal Environmental Solutions launched in 2016 focused strictly on environmental drilling.**

**"We started in environmental because it was easy to learn and then transitioned to geotechnical work based on client requests and maximizing utilization of our 7822DT," Marc Morgenstern, president, said.**

**That shift put two of the company's 7822DT rigs to work on a Manhattan bioswales project for six months.**

**"The 7822DT was ideal to work on the sidewalk in Manhattan without a ton of space to conduct SPT sampling, set 4-inch casing, and run a 24-hour percolation test," Morgenstern said.**

***The Manhattan bioswales project is an urban drainage initiative where the city is building small planted stormwater gardens along streets to capture rainwater, reduce sewer overflows, and make neighborhoods greener.***

# Seeing is Believing

*provided by S2C2*

*Geoprobe® Direct Image® sensing tool readings provide more data than traditional monitoring wells, resulting in a more accurate conceptual site model and remediation plan.*

**S2C2** has seen it all! Since splitting off from a consulting firm in 1998, the company has gone through multiple iterations, changes in ownership, and shifts in staff. Through it all, one constant has remained: a commitment to delivering high-quality, high-resolution site characterization (HRSC) services.

From the beginning, S2C2 has been called upon to help solve nearly every type of subsurface environmental problem. However, the most frequent calls involve failed remediation efforts or consultants encountering light non-aqueous phase liquid (LNAPL) in wells previously believed to be clean.

"We get these calls three or four times a month," Matthew Ruf, president, said. "As long as the contamination is in the overburden and within a formation a Geoprobe® direct push unit can push tooling through, we are confident we can help solve the problem."

## The Case for High-Resolution Data

S2C2 operates on the principle that all environmental problems are inherently complex. Accurately characterizing the relationship between contamination and lithology requires high-resolution data, something traditional investigation methods lack. Direct-sensing tools such as the Membrane Interface Hydraulic Profiling Tool (MIHPT) and Optical Image Hydraulic Profiling Tool (OIHPT) provide that level of detail.

**"Monitoring wells are valuable for long-term observation, but they offer limited data, essentially one sample equals one data point, and longer well screens can dilute contaminant concentrations," Ruf said. "In contrast, direct-sensing tools collect up to 20 readings per foot. More readings mean more data, and more data results in a clearer, more accurate subsurface picture."**

## One Push, One Breakthrough

A recent project in New Jersey illustrates the power of this approach. An OIHPT log (Figure 1) from the site revealed critical insights that significantly altered the conceptual site model (CSM). The initial remediation plan called for injections across the entire well screen interval — 14–34 feet below ground surface. However, direct-sensing data showed that LNAPL was actually confined to a narrower zone between 19 and 26 feet.

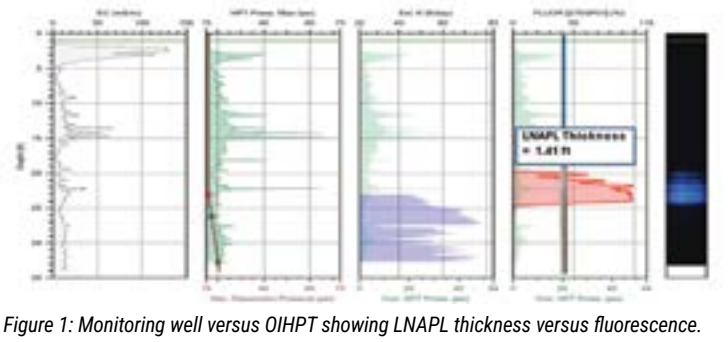



*Figure 1: Monitoring well versus OIHPT showing LNAPL thickness versus fluorescence.*

With a single push, the understanding of the site changed completely. Remediation efforts could then be precisely targeted to the impacted interval, improving efficiency and effectiveness while saving money.

## The Right Tool for the Job

Tom Koester, S2C2's senior high resolution site characterization specialist, feels "MIHPT is the best tool for the job when dealing with chlorinated volatile organic compounds (CVOCs)".

A recent MIHPT log demonstrates why (Figure 2). At another New Jersey site, a traditional investigation approach using monitoring wells detected impacts at each location, but the main CVOC plume was missed. The consultant reached out to S2C2 before an injection event to "double check" the characterization before injecting. The CSM changed after this MIHPT push resulting in a more targeted injection program.

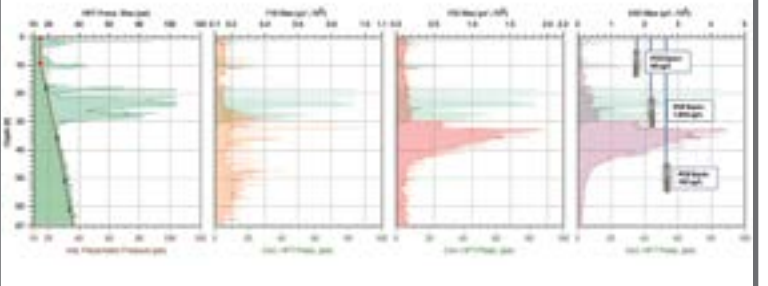


*Figure 2: Monitoring well versus OMIHPT showing well screens missed the plume.*

**"We feel that running a direct-sensing tool, whether it is MIHPT for CVOCs or OIHPT for LNAPL is the**

# Warehouse Floor to Front Lines

Lee Shaw's Geoprobe® career started in distribution. With a production background, the warehouse felt like a natural fit. But it was the freedom to innovate that sparked real growth.

"I came up with ideas for new ways to be more efficient," Lee said. "And I had the freedom to pursue them."

That initiative didn't go unnoticed. After a few years learning the ins and outs of the operation — and meeting people across every corner of the company — he was invited to join the customer service team.

The answer? *Absolutely.*

## Saying Yes to Every Opportunity

When Lee heard about the now legendary Geoprobe® Field Days events, he wanted in.

"I went to Tom [Omli] and said, 'I don't know what I would do, but I'll do anything if I can be part of it'," Lee said.

Tom's response: *Okay, let's do it.*

That moment launched decades of customer partnerships.

**"I met Lee at the 2003 Kentucky Field Days. We learned we shared interests in music and bicycles," Dennis Samsel, Geo Logic Inc owner, said. "Consistently for 20 years he's kept us dialed into what's new and working in the industry, calling me up to say 'keep your eye on this' or 'folks out there are having luck with this'. Geoprobe® attracts high-quality guys, and Lee is at the top of the list."**

Whether jumping into unfamiliar territory or embracing challenges head-on, each opportunity added a new layer of experience for Lee.

"It's my time at Geoprobe® that really developed me into who I am today," Lee said.

## More Than a Workplace

To Lee, describing the Geoprobe® culture is simple: *it's the people.*

"The people you meet on a Geoprobe® facilities tour are the same people I get to work with every day," Lee said. "We don't change who we are because someone's visiting."

And when 4:45 p.m. on a Friday rolls around? Lee and Team Geoprobe® are still there, still supporting customers, because "that's just what we do."

**"Lee always went above and beyond. He was also very in touch with our family – well beyond work," Dean Govan, president, GeoServ Inc said. "I really valued Lee and his personal connection with us. It just showed his sincerity and care for customers."**

### FAREWELL LEE SHAW

**We wish Lee well as he changes the rhythm of his life to spend more time with his wife. He leaves behind a 28-year legacy shaped by hard work, adaptability, and an unwavering commitment to customers and colleagues alike. We thank him for everything he's given to Geoprobe® and the customers we serve. *Personal messages are welcome: shawl@geoprobe.com.***

*Circa 2014 L to R: Blaine Grider, Lee Shaw, John Grider.*

*Lee Shaw (right) and Will Govan (center) conduct customer training during Govan's Geoprobe® internship.*

# Geoprobe Systems® Brings Metal to Multinational Shows

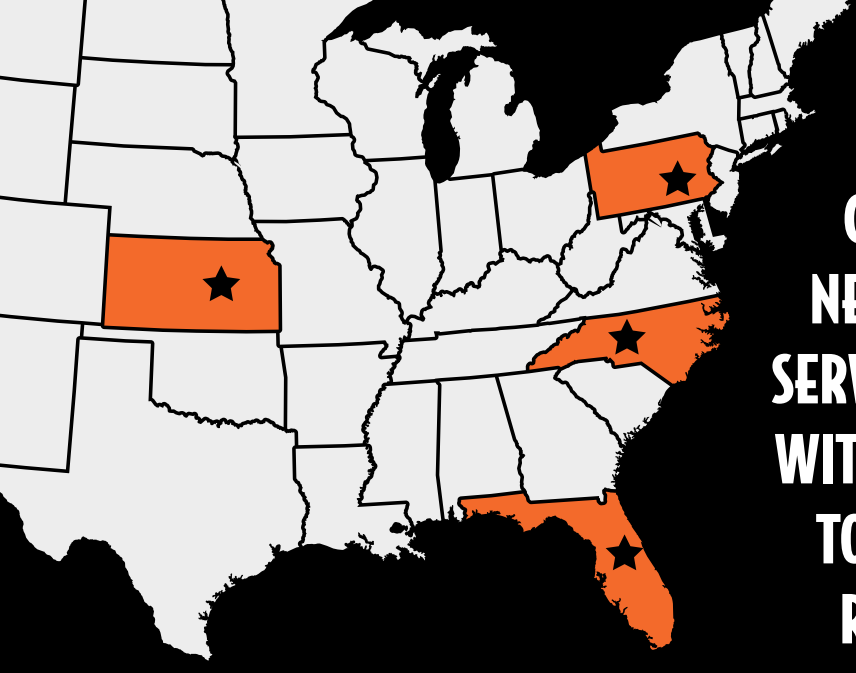
**More rigs in more industries means more opportunities to bring Geoprobe® metal to tradeshows attracting drilling companies from around the globe.**

### ConExpo

**The 21FH foundation rig debuted alongside a DM650 and a GV5 sonic head at ConExpo March 3 - 7 in Las Vegas. Sales representatives and engineers met with customers to highlight each rig's features and receive feedback in-person.**

### PDAC

**For the first time, Team Geoprobe® took metal to the Prospectors & Developers Association of Canada (PDAC) convention March 1-4 in Toronto. Focused on the exploration industry, the 3135GT drew attention from the record 32,000 attendees.**



GROWING NETWORK OF SERVICE CENTERS WITH EXPERTISE TO KEEP YOU RUNNING!

Geoprobe® SERVICE

**We're here to help, no matter the make or model**

*Geoprobe® • DRILLMAX® • Schramm*
*REICHdrill • Ingersoll Rand • Boart Longyear*
*Sandvik • Pulstar • Smeal • AMS • Driltech*

*GEOPROBE® SERVICE*

# Dependable Partner All Along the East Coast

Working as a water well driller in the Carolinas, Nick Young was accustomed to air rotary on large conventional rigs and had built strong relationships at two Geoprobe® service centers.

"The Schramm I ran for years was refurbished by the East Coast Service Center in Pennsylvania. So I know Dave [Sim, manager] and Dave [Harrison, service lead]. Dave Harrison drove down from Pennsylvania to North Carolina to service the rig they refurbed," Young said. "I've known Trevin now at the North Carolina Service Center for years."

When a national water treatment company recruited him to launch a Florida drilling department — **NORTHWEST FLORIDA DRILLERS**, serving the entire panhandle — with a used DM250, he knew exactly who to call.

**"I'm a big fan of Geoprobe® service. When I got to Florida this past November, I told the company owner, 'we need to build a relationship with the Geoprobe® Southeast Service Center (SESC)'," Young said. "If you're drilling, you know something breaks all the time. But not much breaks on this DM250. The centrifugal on it worked, just not well. So I reached out to the SESC."**

## Southeast Service Center Speed That Saves the Day

To have the centrifugal rebuilt, Young removed it, drove 4.5 hours to Ocala, Florida, and booked a hotel for the night.

**"I had it to the SESC first thing in the morning. They had it rebuilt, and I was back on the road by lunch. No one performs service as quickly from my experience," he said.**

## Service Anywhere, Anytime

Beyond shop work, Young relies on Geoprobe® service technicians' expertise to guide him through diagnosing problems over the phone.

"They'll overnight me the part, and I can fix the rig and have it running the next morning," Young said. "I'm not a mechanic, but I've learned to fix things on my own to keep rigs going. I'm very appreciative how accessible the hoses and everything are on the DM250. I serviced the compressor myself and did it in an hour versus being down a whole day doing it on other rigs."

Even if he struggles with a repair, Young has options.

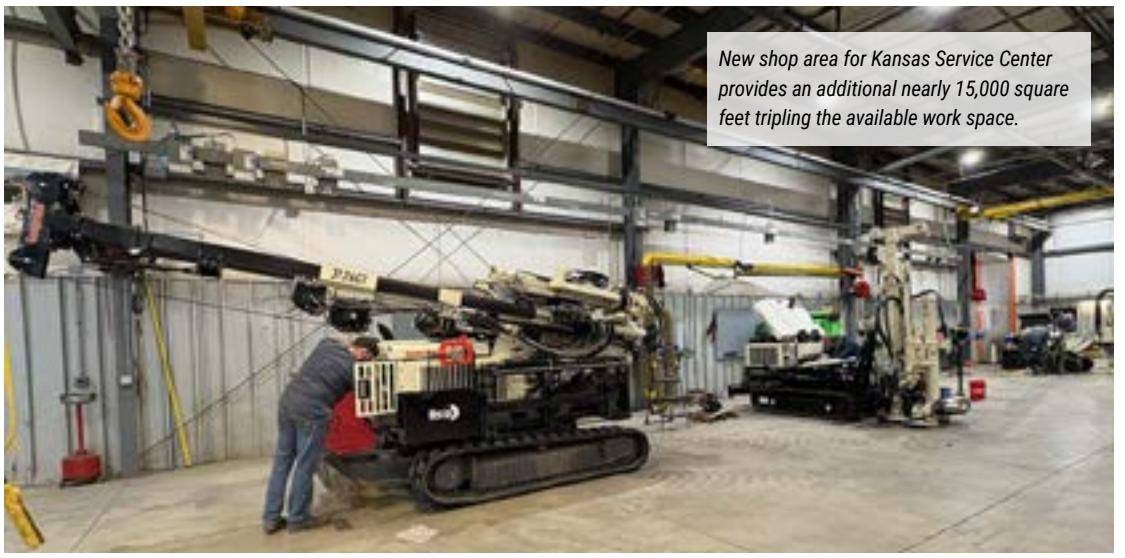
"If I can't fix it, I can bring it in, or they'll come service it in the field," he said.

## Service and Rigs Designed for Real Work

Young is not just a believer in Geoprobe® service but in the rigs themselves.

**"I couldn't imagine trying to get a bigger rig — like I ran in my previous job — on the sites down here. The DM250 is much more agile and perfect for these scenarios and landscapes. It's a real functional machine," Young said. "Geoprobe® service is very responsive and very efficient, especially for East Coast-based companies. Geoprobe® has great centralized locations. If you're in Georgia, South Carolina, Virginia, you have a reasonable drive to reach a location."**

*Quick repairs include rebuilding a centrifugal pump in just half a day to minimize downtime.*



*New shop area for Kansas Service Center provides an additional nearly 15,000 square feet tripling the available work space.*

## KANSAS SERVICE CENTER

# 7822DT Factory Refurbish: Faster Without Compromise

Looking to refurbish your 7822DT, but needing minimal downtime? The Kansas Service Center (KSSC) now offers 60-day factory refurbs on 7822DTs.

**"We know that customers need their machines operating and reducing downtime is critical to their success," Roman Burrows, KSSC manager, said. "Our historical timeline on these was 90 days, but if we can drive the wait time down by a full month, that means customers can schedule the downtime a little easier and go back to generating revenue again as quickly as possible."**

A few key improvements helped speed up the process without sacrificing quality.

### MORE SPACE

Since early 2026, the KSSC has expanded into a larger workspace with additional overhead hoists.

"Big projects especially require a lot of room to work. Some team members may be tearing a rig down while others prepare parts for paint. We gain some ability to work on some of the bigger trucks more easily," Burrows said. "We also have more room to bring in more specialty tooling if we would like, or house more parts."

*Bryce Nichols*

*Sheldon Thalmann*

### MORE TEAMMATES

Bryce Nichols and Sheldon Thalmann join the team as service technicians, bringing with them a new perspective on the process.

"Bryce has been a Geoprobe® engineer for several years and can give special insight on why products were created in a certain way," Burrows said. "Sheldon started with us on our assembly team, so he also has some specialized knowledge about our product lines. As an assembly team member finishing high-quality new products, he knows how to make things perfect. We can always use more of that in service."

### MORE KNOWLEDGE

Long-time rig technicians are still working to develop their skill set.

"Every month we have a different service training led by one of our team members. We do a lot of job shadowing, and ever since I can remember, we have always had an engineering intern on the service team," Burrows said. "We are continuing to bring in more specialized skills that will improve our capacity and lead times."

### HIGH QUALITY

But though the process has changed, the refurbishment remains the same.

**"When complete, customers will have their old rig back that they know and love, but it will look new and be something that their customers will appreciate seeing on site. It will have all the latest updates available for that model year, and all the key components will be refreshed," Burrows said.**

If you have any interest in having your rig refurbished, give us a call at 785-825-1842 and talk to Jason Lindenmuth or Roman Burrows.

# Geoprobe Connect™ Portal Adds Value for New Operations Manager

Patson Saner has spent five years in the drilling industry, beginning as the operations manager for the **TERRACON** North Carolina branch late last year. In addition to geotechnical drilling, his branch focuses on providing a broader range of specialty drilling services.

Overseeing a large fleet of drill rigs, his team's 2022 Geoprobe® 3230DT brings something to the table no other machine does: Geoprobe Connect™.

**"Having access to Geoprobe Connect™ has allowed me to familiarize myself with the machine and its history thanks to the detailed service notes and order history," Saner said. "This has been much better than the usual word of mouth system I have encountered over my career."**

Features of Geoprobe Connect™:

- ***Find facts at your fingertips — fast!***
- ***Save time simplifying daily tasks.***
- ***Review machine and order records.***
- ***Identify overhead cost savings.***

Saner is excited to see how the portal will continue to grow over time — including the addition of drill rig telemetry data, but he already sees the value it provides to customers today.

**"Geoprobe Connect™ features allow me to track and understand this rig — one that may be new to me, but has obviously had a lifespan of its own," Saner said. "I will be able to reference future maintenance needs to the last time it was addressed, providing a valuable understanding of the 'why's' and 'how's' that typically aren't as clear without a system like this'."**

**SCAN TO SIGN UP**
**GEOPROBE CONNECT™**

FREE

## EAST COAST SERVICE CENTER

# Keeping the Fleet Running

Since 1975, **PICKWICK WELL DRILLING** has grown from installing small, shallow water wells to drilling 700-foot wells with 60-horsepower pumps. Add geothermal installations, pump repair, and water treatment to the mix, and as owner Ben Primost puts it, everything has gotten "bigger and much more complicated."

With complexity comes the challenge of maintaining a fleet of three drill rigs. For Pickwick, the solution has been building a relationship with the Geoprobe® East Coast Service Center (ECSC).

### Proximity and Expertise

Located within two hours of Pickwick's operation, the ECSC offers a convenience that has changed how Primost approaches maintenance.

**"They're so close, we use them more versus doing the repairs ourselves," Primost said. "We can drive the trucks to their shop, and they'll also come to our office. The work is done in a timely fashion and done correctly."**

### A Track Record of Results

The ECSC team has tackled projects across Pickwick's diverse fleet:

- ***DM450:* Hydraulic pump replacement and drill head rebuild.**
- ***Gus Pech:* Custom hydraulic hose routing to accommodate a new mud pump installation.**
- ***Schramm T300:* A comprehensive overhaul, which included replacing nearly 200 aging hoses that had begun failing regularly, rebuilding the drill head, pressure testing the main tower cylinder, and replacing worn chains. "The rig runs well now," Primost said.**

### Knowledge That Counts

The Geoprobe® service team's expertise keeps Primost coming back.

**"They know Schramm rigs very well, having worked at Schramm previously. They know what they're doing," Primost said. "We also use them some for Schramm parts."**

And when equipment goes down, the Geoprobe® service team understands response time matters.

"When a rig is down, the ECSC team is very reliable in getting the rig going again," Primost said.



*Schramm table bushing and mast components.*

*Beyond routine maintenance like fluid changes, this 54LT gains a new hammer installed by expert service technicians at Geoprobe® Hickory, North Carolina, service center.*

## NORTH CAROLINA SERVICE CENTER

# Reliable, Expert Service

The **ENVIROCHECK** business model balances roughly half direct push and hollow stem auger monitoring well installations with half work alongside other national consultants on due diligence, Phase I and II assessments, UST, and brownfield projects.

"We've grown from just me and my wife to 10 employees," said JL Rhudy, operations manager. "The first few years were primarily focused on oil and gas work, but as other formations took off, we expanded our clientele."

### Fleet Built for Growth

To support this growth, the small, woman-owned environmental consulting company based in Virginia relies heavily on a fleet of Geoprobe® rigs.

"A key component of buying Geoprobe® rigs is our capability to have it serviced," Rhudy said. "We have two 7822DTs, a 6712DT, a 7800, a 54LT, and we just purchased a used 6600."

Before the North Carolina Service Center (NCSC) in Hickory opened, Envirocheck either performed maintenance in-house or took the rigs to a local hydraulic shop.

"Fortunately, we haven't had any significant troubles with any of our rigs," Rhudy said.

### Service You Can Count On

Now, with Geoprobe® experts just three hours from their office, service has become faster and more reliable.

**"Having the service center so close went into our decision to purchase the used 6600. You want something that's dependable and can get fixed, and with the NCSC I know I can get parts and help when I need it," Rhudy said. "Who better to work on Geoprobe® equipment than Geoprobe® service providers? The Geoprobe® service team members are the technical experts."**

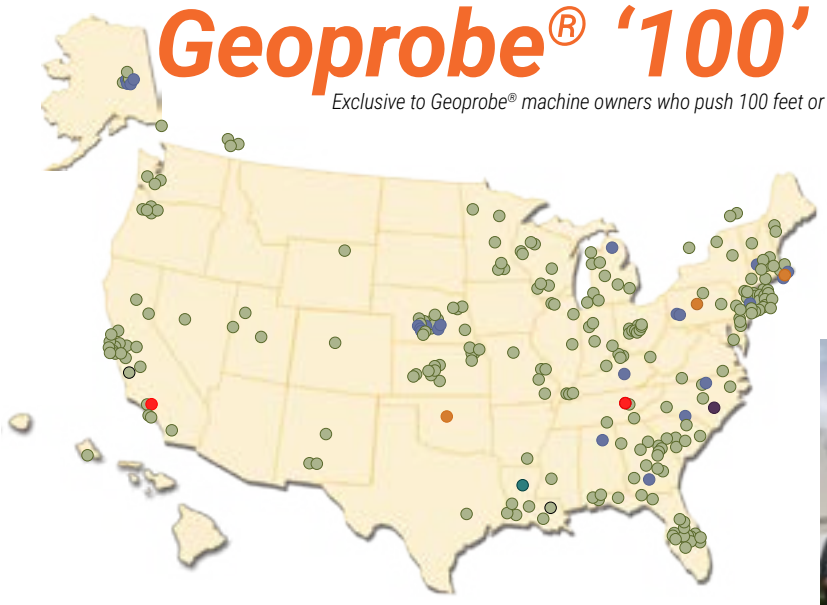
Envirocheck has relied on NCSC for tasks ranging from fixing hammers on both 7822DTs, installing a new hammer on their 54LT, to routine maintenance like fluid changes.

**"Geoprobe® builds them, sells them, refurbishes them, and has the staff and knowledge to do repairs a lot quicker than us and gives you the sense it's been done right," Rhudy said.**

Join the "elite cadre of probists" who belong to ...

# Geoprobe® '100' Club

*Exclusive to Geoprobe® machine owners who push 100 feet or beyond!*




## 400 feet
Catawba Valley Engineering & Testing
***Field Team:*** Cole Irvin, Trevor Inman, Cody Dobbins
***Field Site:*** Hickory, NC
***Date:*** Oct. 9, 2025

## 100 feet
Columbia Technologies
***Field Team:*** Marcos Garcia, Cesar Pinilla, Andres Bohorquez, Victor Lotero, Carlos Giraldo
***Field Site:*** Colombia
***Date:*** Dec. 2, 2025

## 100 feet
Drillpro LLC
***Field Team:*** Mickey Ritter, Yasmel Acosta
***Field Site:*** Cape Canaveral, FL
***Date:*** Dec. 10, 2025

## 100 feet
Drillpro LLC
***Field Team:*** Zaccary Kurpiewski & Nathan Kurpiewski
***Field Site:*** Cape Canaveral, FL
***Date:*** Dec. 9, 2025


## 120 feet
Geo Lab Drilling
***Field Team:*** Devin Day, Patrick Torres, Lat Sorensen
***Field Site:*** Cordele, GA
***Date:*** Feb. 5, 2026

## 201 feet
Athena Drilling
***Field Team:*** Nathaniel Krautheim, Kobe Nason, Aaron Crowley (PhD, PE)
***Field Site:*** Louisville, KY
***Date:*** Jan. 22, 2026

## 100.5 feet
Howell Environmental
***Field Team:*** Mark Friedrichsen, Tom Plasket
***Field Site:*** Malvern, PA
***Depth/Date:*** Jan. 8, 2026

## 107 feet
Geo Lab Drilling
***Field Team:*** Dillon Skinner, Devin Day, Trent Dobbs
***Field Site:*** Atlanta, GA
***Date:*** Feb. 19, 2026

## 160 feet
Geo Lab Drilling
***Field Team:*** Gryffin Nix, Trent Carpenter, Phil Ricker
***Field Site:*** Griffin, GA
***Date:*** Feb. 4, 2026

## 206 feet
Geo Lab Drilling
***Field Team:*** Trent Carpenter, Brantley Lucas, Phil Ricker, Dillon Skinner
***Field Site:*** Atlanta, GA
***Date:*** March 2, 2026


## 109 feet
Geo Lab Drilling
***Field Team:*** Devin Day, Trent Carpenter, Phil Ricker
***Field Site:*** Byron, GA
***Date:*** Oct. 21, 2025

**Submit Your 100-Foot-Plus Jobs to Geoprobe®**

The *DYNAMIC Driller* is the official newsletter of Geoprobe Systems®.
An online version of the newsletter is available at geoprobe.com.

**Share your story or submit 100 Club information:
contact Lori L. Livengood
785-825-1842 or livengoodl@geoprobe.com**

Geoprobe Systems®
1835 Wall Street • Salina KS 67401
1-800-436-7762 • 785-825-1842
geoprobe.com

PRSRT STD
U.S. Postage
**PAID**
Permit NO. 68
Wichita, KS

# Geoprobe® connect

# Drill Rig Telematics

## RIG LOCATION • HOURS • FUEL USE • ERROR CODES

### *GEOPROBE® FACTORY-INTEGRATED DRILL RIG TELEMETRY:*
### KEEPING DRILL RIGS PROFITABLE

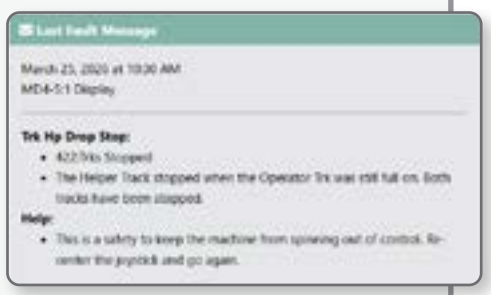
Downtime kills revenue. Factory-integrated telemetry keeps rigs in the field and generating billable hours — without the headaches of aftermarket workarounds.


### *THIRD-PARTY SYSTEM PROBLEMS*

Fleet management software designed for trucks doesn't work well on drill rigs. Retrofitting means constant configuration battles just to pull basic fuel and fault data.

### *WHAT GEOPROBE® FACTORY INTEGRATION SOLVES*

***Scheduling:** See each machine's maintenance cycle and plan proactively.*




***Safety:** Know the rig is in good working condition before problems cause accidents or breakdowns.*

***Evidence:** GPS tracking proves the rig stayed within land access agreement parameters.*

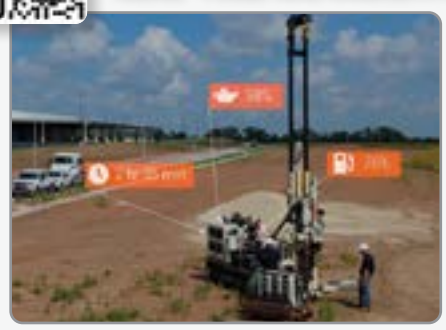
### *ADVANTAGES FOR DRILLERS*

Mobile diagnostics let operators troubleshoot on-site. Service techs see the same live data, eliminating miscommunication during phone support calls and speeding up repairs.

### *MAXIMIZE FLEET PERFORMANCE*

A rig that isn't working isn't making money. Geoprobe® factory-integrated drill rig telemetry is purpose-built to help boost your bottom line.

### *SCAN TO WATCH*
### REAL-TIME RIG INSIGHTS



Geoprobe Systems®
1835 Wall Street • Salina, Kansas 67401
*Change Service Requested*

## Stay up-to-date with Geoprobe®
## follow us on social media!

@geoprobesystems

@drillmaxbygeoprobe

@geoprobeservice

@geoprobesystems

@geoprobebold

For more information on what you have read in this issue, contact us at

GEOPROBE.COM
785-825-1842